

AUTOMOTIVE REPAIR TECHNICIAN

A student who has completed the Job Corps Automotive Repair Technician program is equipped with the skills to contribute to your company as a valued employee from day one. Competence in academic and vocational skills is required for graduation. In addition, Job Corps students learn employability and technological skills. To complete his or her Automotive Repair Technician training, a student must master skills in these categories:

SERVICE APPRENTICESHIP

SAFETY

Operate hand and power tools; raise vehicles using floor jacks and jack stands; comply with OSHA HAZMAT requirements; safely move standard or automatic transmission-type vehicles.

GENERAL KNOWLEDGE

Demonstrate knowledge of basic weights, measurements, hand and power tools, shop layout and equipment and automotive systems; properly use service manuals, technical bulletins, repair orders and other reference materials.

LUBRICATION, FILTERS AND FLUIDS

Change engine oil and filter; lubricate chassis; check vehicle fluid levels; service and replace air and fuel filters; inspect engine assembly, transmission, differential, power steering and rack and pinion for leaks.

GENERAL MAINTENANCE

Inspect, remove and install engine drive belts and engine cooling hoses; drain, flush and refill cooling system; perform cooling, pressure and recovery systems tests; remove, service and install spark plugs, wires, distributor caps and rotors; drain and refill transmission, transaxle, differential and transfer case.

ELECTRICAL AND ACCESSORY MAINTENANCE

Inspect, remove, install and adjust headlights, parking and turn signal bulbs, windshield wiper blades and arms.

GENERAL ELECTRICAL TESTING

Use wiring diagrams during testing; check electrical circuits; test fusible links, circuit breakers and fuses.

TIRE MAINTENANCE

Mount, balance and inspect tires; rotate tires and properly torque lug nuts; repair tubeless tires; inspect and replace wheel studs, hub seals and bearings.

BRAKE SERVICE

Service, remove and replace brake pads, shoes, front and rear wheels and seals; resurface brake rotors and drums; adjust parking brake.

SUSPENSION MAINTENANCE

Inspect front wheel drive CV boots, front/rear shock absorbers and MacPherson strut assemblies.

EXHAUST SYSTEMS

Remove and replace exhaust system components.

BATTERY, STARTER AND ALTERNATOR SERVICE

Inspect, test, remove and replace batteries, alternators and starters; perform charging system tests; inspect and clean battery cables, connectors, clamps and hold-downs; start a vehicle using jumper cables and a battery or auxiliary power supply.

UPON COMPLETION OF THE OUTLINED FOUNDATION COURSES, STUDENTS MAY SPECIALIZE IN THE FOLLOWING AREAS:

Brake Technician

Engine Performance/Emission Technician

HVAC Technician

Suspension and Steering Technician

AVAILABILITY OF SPECIALIZATIONS VARIES AMONG CENTERS.